

Figure 1A

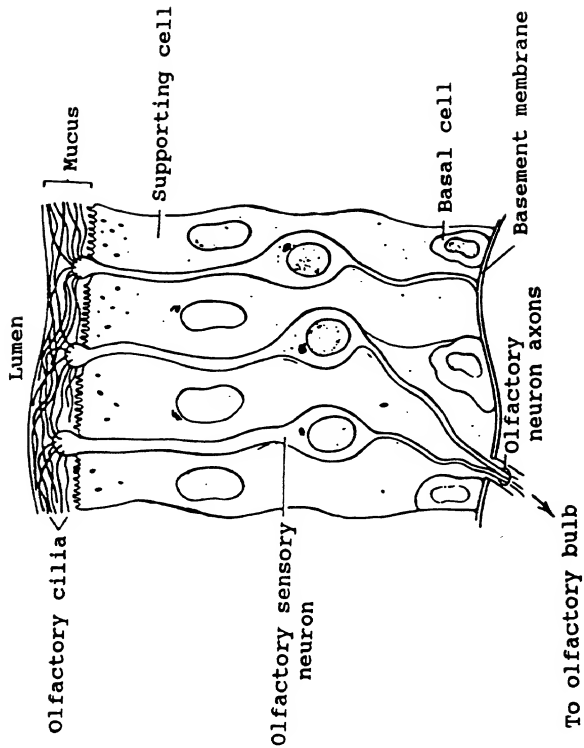
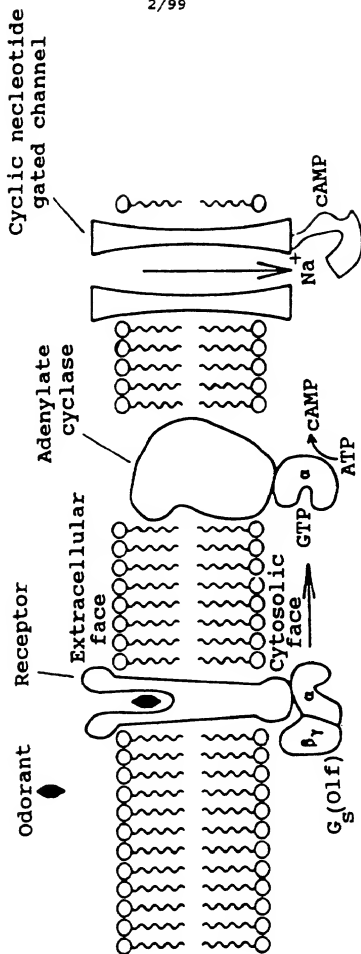


Figure 1B



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Figure 2A

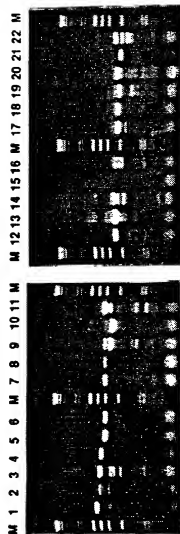


Figure 2B



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Figure 3

OLFACTORY

BRAIN

SPLEEN

5.0 -

2.0 -



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Figure 4A

F3		M	D	S	S	N	R	T	R	V	S	E	11
F5		M	S	S	T	N	Q	S	S	V	T	E	11
F6	M A W	S	T	G	Q	N	L	S	T	P	G	P	14
F12		M	E	S	G	N	S	T	R	R	F	S	12
I3		M	N	-	-	N	Q	T	F	I	T	Q	9
I7		M	E	R	R	N	H	S	G	R	V	S	12
I8		M	N	-	-	N	K	T	V	I	T	H	9
I9		M	T	R	R	N	Q	T	A	I	S	Q	11
I14		M	T	G	N	N	Q	T	L	I	L	E	11
I15		M	T	E	E	N	Q	T	V	I	S	Q	11

F3	F	L	L	L	G	F	V	E	N	K	D	L	Q	P	25
F5	F	L	L	L	G	L	S	R	Q	P	Q	Q	Q	Q	25
F6	F	I	L	L	G	F	P	G	P	R	S	M	R	I	28
F12	F	F	L	L	G	F	T	E	N	P	Q	L	H	F	26
I3	F	L	L	L	G	L	P	I	P	E	E	H	Q	H	23
I7	F	V	L	L	G	F	P	A	P	A	P	L	R	V	26
I8	F	L	L	L	G	L	P	I	P	P	E	H	Q	Q	23
I9	F	F	L	L	G	L	P	F	P	P	E	Y	Q	H	25
I14	F	L	L	L	G	L	P	I	P	S	E	Y	H	L	25
I15	F	L	L	L	F	L	P	I	P	S	E	H	Q	H	25

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Figure 4B

	I		
F3	L I Y G L F L S M Y L V T V		39
F5	L L F L L F L I M Y L A T V		39
F6	G L F L L F L V M Y L L T V		42
F12	L I F A L F L S M Y L V T V		40
I3	L F Y A L F L V M Y L T T I		37
I7	L L F F L S L L X Y V L V L		40
I8	L F F A L F L I M Y L T T F		37
I9	L F Y A L F L A M Y L T T L		39
I14	L F Y A L F L A M Y L T I I		29
I15	V F Y A L F L S M Y L T T V		39

	I		
F3	I G N I S I I V A I I S D P		53
F5	L G N L L I I I L A I G T D S		53
F6	V G N L A I I I S L V G A H R		56
F12	L G N L L I I I M A I I T Q S		54
I3	L G N L L I I I V L V Q L D S		51
I7	T E N M L I I I A I R N H P		54
I8	L G N L L I I V V L V Q L D S		51
I9	L G N L I I I I L I L L D S		53
I14	L G N L L I I I V L V R L D S		53
I15	L G N L I I I I L I H L D S		53

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Figure 4C

	<u>II</u>														
F3	C	L	H	T	P	M	Y	F	F	L	S	N	L	S	67
F5	R	L	H	T	P	M	Y	F	F	L	S	N	L	S	67
F6	C	L	Q	T	P	M	Y	F	F	L	C	N	L	S	70
F12	H	L	H	T	P	M	Y	F	F	L	A	N	L	S	68
I3	Q	L	H	T	P	M	Y	L	F	L	S	N	L	S	65
I7	T	L	H	K	P	M	Y	F	F	L	A	N	M	S	68
I8	H	L	H	T	P	M	Y	L	F	L	S	N	L	S	65
I9	H	L	H	T	P	M	Y	L	F	L	S	N	L	S	67
I14	H	L	H	M	P	M	Y	L	F	L	S	N	L	S	67
I15	H	L	H	T	P	M	Y	L	F	L	S	N	L	S	67

	<u>II</u>														
F3	F	V	D	I	C	F	I	S	T	T	V	P	K	M	81
F5	F	V	D	V	C	F	S	S	T	T	V	P	K	V	81
F6	F	L	E	I	W	F	T	T	A	C	V	P	K	T	84
F12	F	V	D	I	C	F	T	S	T	T	I	P	K	M	82
I3	F	S	D	L	C	F	S	S	V	T	M	P	K	L	79
I7	F	L	E	I	W	Y	V	T	V	T	I	P	K	M	82
I8	F	S	D	L	C	F	S	S	V	T	M	L	K	L	79
I9	F	A	D	L	C	F	S	S	V	T	M	P	K	L	67
I14	F	S	D	L	C	F	S	S	V	T	M	P	K	L	67
I15	F	S	D	L	C	F	S	S	V	T	M	P	K	L	67

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Figure 4E

	<u>III</u>	
F3	L F V E L D N F L L T I N A	119
F5	V F G N M D N F L L A V M S	119
F6	S L G C T E Y F L L A V N A	122
F12	V F A I L G N F L L A V N A	120
I3	V F G D M E S F L L V A N A	117
I7	G L G C T E C V L L A V N A	124
I8	L F G Y L G N F L L V A N A	117
I9	F F G D L G N F L L V A N A	119
I14	V F G D M E S F L L V V N A	119
I15	Y F A D L E S F L L V A <u>N A</u>	119

	<u>III</u>	
F3	Y D R Y V A I C H P M H Y T	133
F5	Y D R F V A I C H P L H Y T	133
F6	Y D R Y L A I C L P L R Y G	136
F12	Y D R Y V A X C H P L C Y T	134
I3	Y D R Y V A I C F P L H Y T	131
I7	Y D R Y V A I C H P L H Y P	138
I8	Y D R Y V A I C F P L H Y T	131
I9	Y D R Y V A I C F P L H Y M	133
I14	Y D R Y V A I C F P L R Y T	133
I15	Y D R Y V A I C F P L H Y M	133

Figure 4F

	<u>IV</u>														
F3	V	I	M	N	Y	K	L	C	G	F	L	V	L	V	147
F5	T	K	M	T	R	Q	L	C	V	L	L	V	V	G	147
F6	G	I	M	T	P	G	L	A	M	R	L	A	L	G	150
F12	V	I	V	N	H	R	L	C	I	L	L	L	L	L	148
I3	S	I	M	S	P	K	L	C	T	C	L	V	L	L	145
I7	V	I	V	S	S	R	L	C	V	Q	M	A	A	G	152
I8	N	I	M	S	H	K	L	C	T	C	L	L	L	V	145
I9	S	I	M	S	P	K	L	C	V	S	L	V	V	L	147
I14	T	I	M	S	T	K	F	C	A	S	L	V	L	L	147
I15	S	I	M	S	P	K	L	C	V	S	L	V	V	L	147

	<u>IV</u>														
F3	S	W	I	V	S	V	L	H	A	L	F	Q	S	L	161
F5	S	W	V	V	A	N	M	N	C	L	L	H	I	L	161
F6	S	W	L	C	G	F	S	A	I	T	V	P	A	T	164
F12	S	W	V	I	S	I	F	H	A	F	I	Q	S	L	162
I3	L	W	M	L	T	T	S	H	A	M	M	H	T	L	159
I7	S	W	A	G	G	F	G	I	S	M	V	K	V	F	166
I8	F	W	I	M	T	S	S	H	A	M	M	H	T	L	159
I9	S	W	V	L	T	T	F	H	A	M	L	H	T	L	161
I14	L	W	M	L	T	M	T	H	A	L	L	H	T	L	161
I15	S	W	V	L	T	T	F	H	A	M	L	H	T	L	161

Figure 4G

F3	M M L A L P F C T H L E I P	175
F5	L M A R K S F C A D N M I P	175
F6	L I A R L S F C G S R V I N	178
F12	I V L Q L T F C G D V K I P	176
I3	L A A R L S F C E N N V V L	173
I7	L I S R L S Y C G P N T I N	180
I8	L A A R L S F C E N N V L L	173
I9	L M A R L S F C E D S V I P	175
I14	L I A R L S F C E K N V I L	175
I15	L M A R L S F C A D N M I P	175

F3	H Y F C E P N Q V I Q L T C	189
F5	H F F C D G T P L L K L S C	189
F6	H F F C D I S P W I V L S C	192
F12	H F F C E L N Q L S Q L T C	190
I3	N F F C D L F V L L K L A C	187
I7	H F F C D V S P L L N L S C	194
I8	N F F C D L F V L L K L A C	187
I9	H Y F C D M S T L L K V A C	189
I14	H F F C D I S A L L K L S C	189
I15	H F F C D I S P L L K L S C	189

Figure 4I

	<u>V</u>	
F3	Y F K I V S S I C A I S S V	231
F5	Y I H I T C A V L R V S S P	231
F6	Y A Y I I T T I I K I P S A	234
F12	Y F K I V S S I H S I S T V	232
I3	Y A R I I S S I L K V P S T	229
I7	Y M A I T G A V M R I P S A	236
I8	Y A K I I S S I L K V P S T	229
I9	Y A R I V S S I F K V P S S	231
I14	Y V R I F F S I L K F P S I	231
I15	Y A R V V A S I L K V P S V	231

	<u>VI</u>	
F3	H G K Y K A F S T C A S H L	245
F5	R G G W K S F S T C G S H L	245
F6	R G R H R A F S T C S S H L	248
F12	Q G K Y K A F S T C A S H L	246
I3	Q G I C K V F S T C G S H L	243
I7	A G R H K A F S T C A S H L	250
I8	Q S I H K V F S T C G S H L	243
I9	Q S I H K A F S T C G S H L	245
I14	Q D I Y K V F S T C G S H L	245
I15	R G I H <u>K I F S T C G S H L</u>	245

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Figure 4J

	<u>VI</u>	
F3	S V V S L F Y C T G L G V Y	259
F5	A V V C L F Y G T V I A V Y	259
F6	T V V L I W Y G S T I F L H	262
F12	S I V S L F Y S T G L G V Y	260
I3	S V V S L F Y G T I I G L Y	257
I7	T V V I I F Y A A S I F I Y	264
I8	S V V S L F Y G T I I G L Y	257
I9	S V V S L F Y G T V I G L Y	259
I14	S V V T L F Y G T I F G I Y	259
I15	S V V S L F Y G T I I G L Y	259

	<u>VI</u>	<u>VII</u>	
F3	L S S A A N N S S Q A S A T		273
F5	F N P S S S H L A G R D M A		273
F6	V R T S V E S S L D L T K A		276
F12	V S S A V V Q S S H S A A S		274
I3	L C P A G N N S T V K E M V		271
I7	A R P K A L S A F D T N K L		278
I8	L C P S G D N F S L K G S A		271
I9	L C P S A N N S T V K E T V		273
I14	L C P S G N N S T V K E I A		273
I15	L C P S A N N S T V K E T V		273

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Figure 4K

	<u>VII</u>														
F3	A	S	V	M	Y	T	V	V	T	P	M	V	N	P	287
F5	A	A	V	M	Y	A	V	V	T	P	M	L	N	P	287
F6	I	T	V	L	N	T	I	V	T	P	V	L	N	P	290
F12	A	S	V	M	Y	T	V	V	T	P	M	L	N	P	288
I3	M	A	M	M	Y	T	V	V	T	P	M	L	N	P	285
I7	V	S	V	L	Y	A	V	I	V	P	L	F	N	P	292
I8	M	A	M	M	Y	T	V	V	T	P	M	L	N	P	285
I9	M	S	L	M	Y	T	M	V	T	P	M	L	N	P	287
I14	M	A	M	M	Y	T	V	V	T	P	M	L	N	P	287
I15	M	A	M	M	Y	T	V	V	T	P	M	L	N	P	287

	<u>VII</u>														
F3	F	I	Y	S	L	R	N	K	D	V	K	S	V	L	301
F5	F	I	Y	S	L	R	N	K	D	M	K	A	A	L	301
F6	F	I	Y	T	L	R	N	K	D	V	K	E	A	L	304
F12	F	I	Y	S	L	R	N	K	D	V	K	R	A	L	302
I3	F	I	Y	S	L	R	N	R	D	M	K	R	A	L	299
I7	I	I	Y	C	L	R	N	Q	D	V	K	R	A	L	306
I8	F	I	Y	S	L	R	N	R	D	M	K	Q	A	L	299
I9	F	I	Y	S	L	R	N	R	D	I	K	D	A	L	301
I14	F	I	Y	S	L	R	N	R	D	M	K	R	A	L	301
I15	F	I	Y	S	L	R	N	R	D	M	K	E	A	L	301

Figure 4L

F3	K K T L C E E V I R S P P S	315
F5	R K V L A M R F P S K Q -	313
F6	R R T V K G K -	311
F12	E R L L E G N C K V H H W T	316
I3	I R V I C S M K I T L -	310
I7	R R T L H L A Q D Q E A N T	320
I8	I R V T C S K K I S L P W -	312
I9	E K I M C K K Q I P S F L -	314
I14	I R V I C T K K I S L -	312
I15	I R V L C K K K I T F C L -	314

F3	L L H F F L V L C H L P C F	329
F5		
F6		
F12	G -	317
I3		
I7	N K G S K I G -	327
I8		
I9		
I14		
I15		

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Figure 4M

F3
F5
F6
F12
I3
I7
I8
I9
I14
I15

I F C Y -

333

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[illegible]

	V													
F2	R	V	N	E	V	V	I	F	I	V	V	S	L	F
F3	F	L	N	D	L	V	I	Y	F	T	E	G	V	L
F5	H	L	N	E	L	M	I	L	F	T	E	G	A	V
F6	Q	V	V	E	L	V	S	F	G	I	A	F	C	V
F7	H	V	N	E	L	V	I	F	V	M	G	G	I	I
F8	F	P	S	H	L	T	M	H	L	V	P	V	I	L
F12	F	P	S	H	L	I	M	N	L	V	P	V	M	L
F13	F	P	S	H	L	I	M	N	L	V	P	V	M	L
F23	F	L	N	D	V	I	M	Y	F	A	L	V	L	L
F24	H	E	I	E	M	I	I	L	V	L	A	A	F	N
I3	Y	I	N	E	L	M	I	F	I	M	S	T	L	I
I7	S	T	A	E	L	T	D	F	V	L	A	I	F	I
I8	Y	V	N	E	L	M	I	H	I	M	G	V	I	I
I9	H	D	N	E	L	A	I	F	I	L	G	G	P	I
I11	H	L	N	E	L	M	I	L	T	E	G	A	V	V
I12	F	P	S	H	L	I	M	N	L	V	P	V	M	L
I14	Y	V	N	E	L	M	I	Y	I	L	G	G	L	I
I15	H	V	N	E	L	V	I	F	V	I	M	G	G	L

Figure 6A(2)

	V
F2	L V L P F A L I I M S Y V R
F3	A T V P L A G I F Y S Y F K
F5	M V T P F V C I L I S Y I H
F6	I H G S C G I T L V S Y A Y
F7	L V I P F V L I I V S Y V R
F8	A A I S L S G I L Y S Y F K
F12	A A I S F S G I L Y S Y F K
F13	A A I S F S G I L Y S Y F K
F23	A V V P L L G I L Y S Y S K
F24	L I S S L L V V L V S Y L F
I3	I I I P F F L I V M S Y A R
I7	L L G P L S V T G A S Y M A
I8	I V I P F V L I V I S Y A K
I9	V V L P F L L I I V S Y A R
I11	M V T P F V C I L I S Y I H
I12	G A I S L S G I L Y S Y F K
I14	I I I P F L L I V M S Y V R
I15	I V I P F V L I I V S Y A R

Figure 6A(3)

F2	I	V	S	S	I	L	K	V	P	S	S	Q	G	I
F3	I	V	S	S	I	C	A	I	S	S	V	H	G	K
F5	I	T	C	A	V	L	R	V	S	S	P	R	G	G
F6	I	I	T	T	I	I	K	I	P	S	A	R	G	R
F7	I	V	S	S	I	L	K	V	P	S	A	R	G	I
F8	I	V	S	S	I	R	S	M	S	S	V	Q	G	K
F12	I	V	S	S	I	H	S	I	S	T	V	Q	G	K
F13	I	V	S	S	I	R	S	V	S	S	V	K	G	K
F23	I	V	S	S	I	R	A	I	S	T	V	Q	G	K
F24	I	L	I	A	I	L	R	M	N	S	A	E	G	R
I3	I	I	S	S	I	L	K	V	P	S	T	Q	G	I
I7	I	T	G	A	V	M	R	I	P	S	A	A	G	R
I8	I	I	S	S	I	L	K	V	P	S	T	Q	S	I
I9	I	V	S	S	I	F	K	V	P	S	S	Q	S	I
I11	I	T	W	A	V	L	R	V	S	S	P	R	G	G
I12	I	V	S	S	V	R	S	I	S	S	V	Q	G	K
I14	I	F	F	S	I	L	K	F	P	S	I	Z	D	I
I15	V	V	A	S	I	L	K	V	P	S	V	R	G	I

Figure 6B

					V										
F12	F	P	S	H	L	I	N	N	L	V	P	V	M	L	
F13	F	P	S	H	L	I	N	N	L	V	P	V	M	L	
F8	F	P	S	H	L	T	N	H	L	V	P	V	I	L	
I12	F	P	S	H	L	I	N	N	L	V	P	V	M	L	
F23	F	L	N	D	V	I	N	Y	F	A	L	V	L	L	
F3	F	L	N	D	L	V	I	Y	F	T	L	V	L	L	

					V										
F12	A	A	I	S	F	S	G	I	L	Y	S	Y	F	K	
F13	A	A	I	S	F	S	G	I	L	Y	S	Y	F	K	
F8	A	A	I	S	L	S	G	I	L	Y	S	Y	F	K	
I12	G	A	I	S	L	S	G	I	L	Y	S	Y	F	K	
F23	A	V	V	P	L	L	G	I	L	Y	S	Y	S	K	
F3	A	T	V	P	L	A	G	I	F	Y	S	Y	F	K	

Figure 6B (Continued)

F12	I	V	S	S	I	H	S	I	S	T	V	Q	G	K
F13	I	V	S	S	I	R	S	V	S	S	V	K	G	K
F8	I	V	S	S	I	R	S	M	S	S	V	Q	G	K
I12	I	V	S	S	V	R	S	I	S	S	V	Q	G	K
F23	I	V	S	S	I	R	A	I	S	T	V	Q	G	K
F3	I	V	S	S	I	C	A	I	S	S	S	H	G	K

F12	Y	K
F13	Y	K
F8	Y	K
I12	H	K
F23	Y	K
F3	Y	K

Figure 6C

					V									
F7	H	V	N	E	L	V	I	F	V	M	G	G	I	I
I15	H	V	N	E	L	V	I	F	V	M	G	G	L	V
I3	Y	I	N	E	L	M	I	F	I	M	S	T	L	L
I8	Y	V	N	E	L	M	I	H	I	M	G	V	I	I
I9	H	D	N	E	L	A	I	F	I	L	G	G	P	I
I14	Y	V	N	E	L	M	I	Y	I	L	G	G	L	I

					V									
F7	L	V	I	P	F	V	L	I	I	V	S	Y	V	R
I15	I	V	I	P	F	V	L	I	I	V	S	Y	A	R
I3	I	I	I	P	F	F	L	I	V	M	S	Y	A	R
I8	I	V	I	P	F	V	L	I	V	I	S	Y	A	K
I9	V	V	L	P	F	L	L	I	I	V	S	Y	A	R
I14	I	I	I	P	F	L	L	I	V	M	S	Y	V	R

Figure 6C (Continued)

F7 I V S S I L K V P S A R G I
I15 V V A S I L K V P S V R G I
I3 I I S S I L K V P S T Q G I
I8 I I S S I L K V P S T Q S I
I9 I V S S I F K V P S S Q S I
I14 I F F S I L K F P S I Q D I

F7 R K
I15 H K
I3 C K
I8 H K
I9 H K
I14 Y K

00774200-012604

Figure 6D

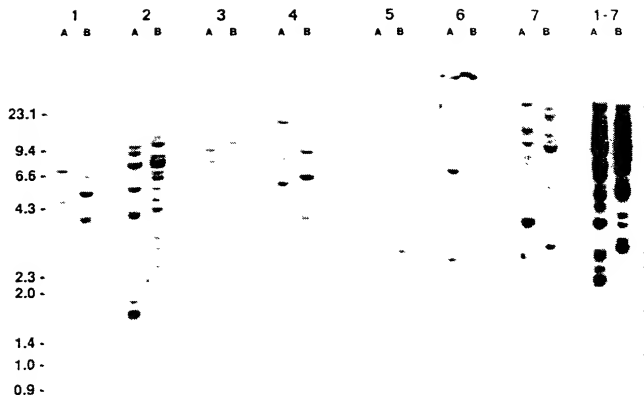
[illegible]

	V	
F5	N V T P F V C I L I S Y I H	
I11	N V T P F V C I L I S Y I H	

F5 I T C A V L R V S S P R G G
I11 I T W A V L R V S S P R G G

F5 W K
I11 W K

Figure 7



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Figure 8

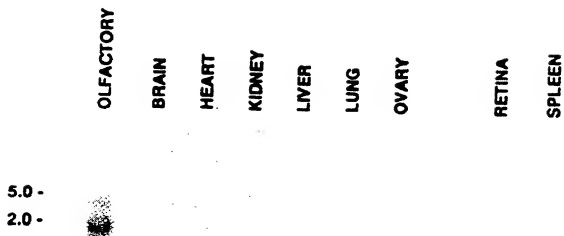


Figure 9A Translated sequence of F3T.D1S

10	20	30	40	50	60
* ATG GAC TCA ACC AAC AGG ACA AGA GTT TCA GAA TTT CTT CTT GGA TTT GTA GAA AAC	* M D S S N R T R V S E F L L L G F V E N	* 70	* 80	* 90	* 100
* AAA GAC CTA CAA CCC CTT ATT TAT GGT CTT TTT CTC TCT ATG TAC CTG GTT ACT GTC ATT	* K D L Q P L I Y G L F L S M Y L V T V I	* 110	* 120	* 130	* 140
* CGA AAC ATA TCC ATT ATT GTG GCT ATC ATT TCA GAT CCC TGT CTG CAC ACC CCC ATG TAT	* G N I S I I V A I I S D P C L H T P M Y	* 150	* 160	* 170	* 180
* TTC TTC CTC TCT AAC CTG TCC TTT GTG GAC ATC TGT TTC ATT TCA ACC ACT GTT CCA AAC	* F F L S N L S F V D I C F I S T T V P K	* 190	* 200	* 210	* 220
* ATG TTA GTG AAC ATC CAG ACC CAA AAC AAT GTC ATC ACC TAT GCA GGA TGC ATT ACC CAG	* M L V N I Q T Q N N V I T Y A G C I T Q	* 230	* 240	* 250	* 260
* ATG TTA GTG AAC ATC CAG ACC CAA AAC AAT GTC ATC ACC TAT GCA GGA TGC ATT ACC CAG	* M L V N I Q T Q N N V I T Y A G C I T Q	* 270	* 280	* 290	* 300

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Figure 9B

310	320	330	340	350	360
ATA TAC TTT TTG CTC TTT GTA GAA TTG GAC AAC TTC TTG CTG ACT ATC ATG GCC TAT	*	*	*	*	*
I Y F F L L L F V E L D N F L L L T I M A Y					
370	380	390	400	410	420
GAC CGT TAC GTA GCC ATC TGT TGT CAC CCC ATG CAC TAC ACA GTT ATC ATG AAC TAC AAG CTC	*	*	*	*	*
D R Y V A I C H P M H Y T V I M N Y K L					
430	440	450	460	470	480
TGT GGA TTT CTG GTT CTG GTA TCT TGG ATT GTA AGT GTT CTG CAT GCC TTG TTT CAA AGC	*	*	*	*	*
C G F L V L V S W I V S V L H A L F Q S					
490	500	510	520	530	540
TTG ATG ATG TTG CGG CTG CCC TTC TGC ACA CAT CTG GAA ATC CCA CAC TAC TTC TGT GAA	*	*	*	*	*
L M M L A L P F C T H L E I P H Y F C E					
550	560	570	580	590	600
CCT AAT CAG CTG ATT CAA CTC ACC TGT TCT GAT GCA TTT CTT AAT GAT CTT GTG ATA TAT	*	*	*	*	*
P N Q V I I Q L T C S D A F L N D L V I Y					
610	620	630	640	650	660

Figure 9C

TTT ACA CTT	*	GTG CTG	CTG ACT	GTT CCT	CTT GCT	GGC ATC	TTC TAT	TCT TAC	TTC AAC	*
F T L V		L L A	T V P	L A G	I F Y	S Y F	K			
670		680	690	700	710	720				
*		*	*	*	*	*	*	*	*	*
ATA GTG TCC	ATA TGT	GCT ATA	TCG TCA	GTT CAT	GGG AAG	TAC AAA	GCA TTC	TCC ACC		
I V S S	I C A	I S S	V H G	K Y K	A F S	T				
730		740	750	760	770	780				
*		*	*	*	*	*	*	*	*	*
TGT GCA TCT	CAC CTT	TCA GTC	GTG TCT	TTA TTT	TAC TGC	ACA GGA	CTA GGA	GTG TAC	CTC	
C A S H	L S V	V V S	L F Y	C T G	L G V	Y L				
790		800	810	820	830	840				
*		*	*	*	*	*	*	*	*	*
ACT TCT GCT	GCA AAC	AGC TCA	CAG GCA	AGT GCC	ACA GCC	TCA GTC	ATG TAC	ACT GTA		
S S A A	N N S	S Q A	S A S	A T A	S V M	Y T V				
850		860	870	880	890	900				
*		*	*	*	*	*	*	*	*	*
GTT ACC CCT	ATG GTG	AAC CCT	TTT ATC	TAT AGT	CTT AGG	AAT AAA	GAT GTT	AAG AGT	GTT	
PRONUC/TRA	OPTION									
V T P M	V N P	F I Y	S L R	N K D	V K S	V				

	910		920		930		940		950		960						
	*		*		*		*		*		*						
CTG AAA	ACT	CTT	TGT	GAG	GAA	GTT	ATA	AGC	AGT	CCA	CCT	TCC	CTA	CTT	CAT	TTC	TTC
L K	K	T	L	C	E	E	V	I	R	S	P	P	S	L	L	H	F
	970		980		990		1000										
	*		*		*		*										
CTA GTG	TTA	TGT	CAT	CTC	CCT	TGT	TTT	ATT	TTT	TGT	TAT	TAA					
L V	L	C	H	L	P	C	F	I	F	C	Y	-					

Translation begun with base no. 57

Translated to base no.1058

Sequence printed from base no. 57 to base no.1058

Sequence numbered beginning with base no. 57

Figure 10A Translated sequence of F5T.D1S

10	20	30	40	50	60
* ATG AGC AGC ACC AAC CAG TCC AGT GTC ACC GAG TTC CTC CTC CTG GGA CTC TCC AGG CAG M S T N Q S S V T E F L L G L S R Q	* 70	* 80	* 90	* 100	* 110
* CCC CAG CAG CAG CAG CTC CTC TTC CTG CTC ATC ATG TAC CTG GCC ACT GTC CTC P Q Q Q Q L L L F L L F L I M Y L A T V L	* 130	* 140	* 150	* 160	* 170
* GGA AAC CTG CTC ATC ATC CTC GCT ATT GGC ACA GAC TCC CGC CTG CAC ACC CGC ATG TAC G N L L I I L A I G T D S R L H T P M Y	* 190	* 200	* 210	* 220	* 230
* TTC TTC CTC AGT AAC CTG TCC TTT GTG GAT GTC TGC TCC TCT ACC ACT GTC CCT AAA F F L S N L S F V D V C F S S T T V P K	* 250	* 260	* 270	* 280	* 290
* GTT CTC GCC AAC CAT ATA CTT GGC AGT CAG GCC ATT TCC TTC TCT TCT GGT TGT CTC ACC CAG V L A N H I L G S Q A I S F S G C L T Q					

Figure 10B

CTG TAT TTT CTC GCT GTG TTT GGT AAC ATG GAC AAT TTC CTG CTG GCT CTG ATG TCC TAT	310	320	330	340	350	360
L Y F L A V F F G N M D N F L L A V M S Y	*	*	*	*	*	*
GAC CGA TTT GTG GCC ATA TGC CAC CCT TTA CAC TAC ACA ACA AAG ATG ACC CGT CAG CTC	370	380	390	400	410	420
D R F V A I C H P L H Y T T K M T R Q L	*	*	*	*	*	*
IGT GTC CTG CTT GTT GTG GGG TCA TGG GTT GTA GCC AAC ATG AAT TGT CTG TTG CAC ATA	430	440	450	460	470	480
C V L L V V G G S W V V A N M N C L L H I	*	*	*	*	*	*
CTG CTC ATG GCT CGA CTC TCC TTC TGT GCA GAC AAC ATG ATC CCC CAC TTC TTC TGT GAT	490	500	510	520	530	540
L L M A R L S F C A D N M I P H F C D	*	*	*	*	*	*
GGA ACT CCC CTC CTG AAA CTC TCC TGC TCA GAC ACA CAT CTC AAT GAG CTG ATG ATT CTT	550	560	570	580	590	600
G T P L L K L S C S D T H L N E L M I L	*	*	*	*	*	*
	610	620	630	640	650	660

Figure 10D

	850		860		870		880		890		900
	*		*		*		*		*		*
GTG ACC CCA ATG CTG AAC CCT TTC ATC TAT AGC CTG AGG AAC AGC GAC ATG AAA GCA GCT											
V T P M L N P F I Y S L R N S D M K A A											
	910		920		930		940				
	*		*		*		*				
TTA AGG AAA CTG CTC GCC ATG AGA TTT CCA TCT AAG CAG TAA											
L R K V L A M R F P S K Q -											

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Translation begun with base no. 62

Translated to base no.1003

Sequence printed from base no. 62 to base no.1003

Sequence numbered beginning with base no. 62

Figure 11A Translated sequence of F6T.D1S

10	20	30	40	50	60
* ATG GCT TCG AGT ACT GCG CAG AAC CTG TCC ACA CCA GGA CCA TTC ATC TTC CTG GGC TTC M A W S T G Q N L S T P G P F I L L G F					
70	80	90	100	110	120
* CCA GGG CCA AGG AGC ATG CGC ATT GGG CTC TTC CTG CTT TTC CTG GTC ATG TAT CTG CTT P G P R S M R I G L F L L F L V M Y L L					
130	140	150	160	170	180
* ACC GTA GTT GGA AAC CTA GCC ATC ATC TCC CTG GTA GGT GCC CAC AGA TGC CTA CAG ACA T V V G N L A I I S L V G A H R C L Q T					
190	200	210	220	230	240
* CCC ATG TAC TTC TTC CTG TGC AAC CTC TCC TTC CTG GAG ATC TGG TTC ACC ACA GCC TGC P M Y F F L C N L S F L E I W F T T A C					
250	260	270	280	290	300
* GTA CCC AAG ACC CTG GCG ACA TTT GCG CCT GGG GGT GGA GTC ATT TCC TTG GCT GGC TGT V P K T L A T F A P R G G V I S L A G C					

Figure 11B

310 * 320 330 340 350 360
 GCC ACA CAG ATG TAC TTT GTC TTT TCT TTG GGC TGT ACC GAG TAC TTC CTG CTG CCT CTG
 A T Q M Y F F S L G C T E Y F L L A V

370 * 380 390 400 410 420
 ATG GCT TAT GAC CGC TAC TCG GGC ATC TGC CCA CTG CGC TAT GGT GGC ATC ATG ACT
 M A Y D R Y L A I C L P L R Y G G I M T

430 * 440 450 460 470 480
 CCT GCG CTG GCG ATG CGG TTG GGC CTG GGA TCC TGG CTG TGT TGT GGT TTT TCT GCA ATC ACA
 P G L A A M R L L A L G S W L C G F S A I T

490 * 500 510 520 530 540
 GTT CCT GCT ACC CTC ATT GCG CGC CTC TCT TTC TGT GGC TCA CGT GTC ATC AAC CAC TTC
 V P A T L I A R L S F C G S R V I N H F

550 * 560 570 580 590 600
 TTC TGT GAC ATT TCG CCC TGG ATA GTG CTT TCC TGC ACC GAC ACG CAG CTG GTG GAA CTC
 F C D I S P W I V L S C T D T Q V V E L

610 620 630 640 650 660

Figure 11D

850	*	860	*	870	*	880	*	890	*	900	*
AAC ACC ATT GTC ACA CCT GTG CTG AAC CCT TTC ATA TAT ACT CTG AGG AAC AAG GAT CTC											
N T I V T P V L N P F I Y T L R N K D V											
910	*	920	*	930	*						
AAG GAA GCT CTG CGC AGG ACG CTG AAG GGG AAG TGA											
K E A L R R T V K G K -											

Translation begun with base no. 75
 Translated to base no.1010
 Sequence printed from base no. 75 to base no.1010
 Sequence numbered beginning with base no. 75

Figure 12A Translated sequence of F12T.D1S

10	20	30	40	50	60
* ATG GAA TCA GGG AAC AGC ACA AGA AGA TTT TCA AGT TTT TTT CTT CTT GGA TTT ACA GAA	* M E S G N S T R R F S S F F L L G F T E	* 70	* 80	* 90	* 100
* AAC CCA CAA CTT CAC TTC CTC ATT TTT GCA CTA TTC CTG TCC ATG TAC CTG GTA ACA GTG	* N P Q L H F L I F A L F L S M Y L V T V	* 110	* 120	* 130	* 140
* CTT GGG AAC CTG CTT ATC ATT ATG GCC ATC ACA CAG TCT CAT TTG CAT ACA CCC ATC	* L G N L L I I M A I I T Q S H L H T P M	* 150	* 160	* 170	* 180
* TAC TTT TTC CTT GCT AAC CTA TCC TTT GTG GAC ATC TGT TTC ACC TCC ACC ACC ATC CCA	* Y F F L A N L S F V D I C F T S T T I P	* 190	* 200	* 210	* 220
* TAC TTT TTC CTT GCT AAC CTA TCC TTT GTG GAC ATC TGT TTC ACC TCC ACC ACC ATC CCA	* Y F F L A N L S F V D I C F T S T T I P	* 230	* 240	* 250	* 260
* TAC TTT TTC CTT GCT AAC CTA TCC TTT GTG GAC ATC TGT TTC ACC TCC ACC ACC ATC CCA	* Y F F L A N L S F V D I C F T S T T I P	* 270	* 280	* 290	* 300

Figure 12B

AAG	ATG	TTG	GTA	AAT	ATA	TAC	ACC	CAG	AGC	AAG	AGC	ATC	ACC	TAT	GAA	GAC	TGT	ATT	ACC
K	M	L	V	N	I	Y	T	Q	S	K	S	I	T	Y	E	D	C	I	S
310	*					320	*						330	*					360
CAG	ATG	TGT	GTC	TTT	TTG	GTT	TTT	GCA	GAA	TTG	GGC	AAC	TTT	CTC	CTG	GCT	GTG	ATG	GCC
Q	M	C	V	F	L	V	F	A	E	L	G	N	F	L	L	A	V	M	A
370	*					380	*						390	*					420
TAT	GAC	CGA	TAT	GTG	GCT	A-C	TGT	CAC	CCA	CTG	TGT	TAC	ACA	GTC	ATT	GTG	AAC	CAC	CGG
Y	D	R	Y	V	A	X	C	H	P	L	C	Y	T	V	I	V	N	H	R
430	*					440	*						450	*					480
CTC	TGT	ATC	CTG	CTG	CTT	CTG	CTG	TCC	TGG	GTT	ATC	AGC	ATT	TTC	CAT	GCC	TTC	ATA	CAG
L	C	I	L	L	L	L	L	S	W	V	I	S	I	F	H	A	F	I	Q
490	*					500	*						510	*					540
AGC	TTA	ATT	GTG	CTA	CAG	TTG	ACC	TTT	TGT	GCA	GAT	GTG	AAA	ATC	CCT	CAC	TTC	TTC	TGT
S	L	I	V	L	Q	L	T	F	C	G	D	V	K	I	P	H	F	F	C
550	*					560	*						570	*					600
GAA	CTT	AAT	CAG	CTG	TCC	CAA	CTC	ACC	TGT	TCA	GAC	AAC	TTT	CCA	AGT	CAC	CTC	ATA	ATG
E	L	N	Q	L	S	Q	L	T	C	S	D	N	F	P	S	H	L	I	M

Figure 12C

610	620	630	640	650	660
* AAT CTT GTA GGT ATT ATG TTG GCA GCC ATT TCC TTC AGT GGC ATC CTT TAC TCT TAT TTC	* N L V P V M L A A I S F S G I L Y S Y F	* 670	* 680	* 690	* 700
* AAG ATA GTA TCC TCC ATA CAT TCT ATC TCC ACA CTT CAG GGG AAG TAC AAG GCA TTT TCT	* K I V S S I H S I S T V Q G K Y K A F S	* 710	* 720	* 730	* 740
* ACT TGT GCC TCT CAC CTT TCC ATT GTC TCC TTA TTT TAT AGT ACA GGC CTC GGA GTG TAC	* T C A S H L S I V S L F Y S T G L G V Y	* 750	* 760	* 770	* 780
* GTC AGT TCT GTC CAA AGC TCA CAT TCT GCT GCA AGT GCT TCG GTC ATG TAT ACT	* PRONUC/TRA OPTION	* 790	* 800	* 810	* 820
* V S S A V V Q S S H S A A S A S V M Y T	* 830	* 840	* 850	* 860	* 870

Figure 12D

	850		860	870	880	890	900												
	*	*	*	*	*	*	*												
GTG	GTC	ACC	CCC	ATG	CTG	AAC	CCC	TTC	ATT	TAT	AGT	CTA	AGC	AAT	AAA	GAT	GTG	AAG	AGA
V	V	T	P	M	L	N	P	F	I	Y	S	L	R	N	K	D	V	K	R
	910		920		930		940		950										
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
GCT	CTG	GAA	AGA	CTG	TTA	GAA	GGA	AAC	TGT	AAA	CTG	CAT	CAT	TGG	ACT	GGA	TGA		
A	L	E	R	L	L	E	G	N	C	K	V	H	H	W	T	G	-		

Translation begun with base no. 173

Translated to base no. 1126

Sequence printed from base no. 173 to base no. 1126

Sequence numbered beginning with base no. 173

Figure 13A Translated sequence of 13T.D15

10	20	30	40	50	60
* ATG AAC AAT CAA ACT TTC ATC ACC CAA TTC GTT CTC CTG GGA CTG CCC ATC CCT GAA GAA M N N Q T F I T Q F L L L G L P I P E E	* 70	* 80	* 90	* 100	* 110
* CAT CAG CAC CTG TTC TAT GCC TTG TTC CTG ATG TAC CTC ACC ACC ATC TTG GGA AAC H Q H L F Y A L F L V M Y L T T I L G N	* 130	* 140	* 150	* 160	* 170
* TTG CTA ATC ATT GTA GTT CTT CAA CTG GAC TCC CAG CTC CAC ACA CCT ATG TAT TTG TTT L L I I V L V Q L D S Q L H T P M Y L F	* 190	* 200	* 210	* 220	* 230
* CTC AGC AAT TTG TCT TTC TCT GAT CTA TGT TTT TCC TCT GTC ACA ATG CCC AAG CTG CTG L S N L L S F S D L C F S S V T M P K L L	* 250	* 260	* 270	* 280	* 290
* CAG AAC ATG AGG AGC CAG CAC ACA TCC ATT CCC TAT GGA GGC TCC CTG GCA CAA ACA TAC Q N M R S Q D T S I P Y G G C L A Q T Y					

Figure 13B

310	320	330	340	350	360
* TTC TTT ATG GTT TTT GGA GAT ATG GAG ACT TTC CTT GTG GCC ATG GCC TAT GAC CGC F F M V F F G D M E S F L L V A M A Y D R	* TAT CTG GCC ATO TGC TTC CCT CTG CAT TAC ACC AGC ATC ATG AGC CCC AAG CTC TGT ACT Y V A I C F P L H Y T S I M S P K L C T	* TGT CTA GTG CTG TTA TTG TGG ATG CTG ACG ACA TCC CAT GCC ATG ATG CAC ACA CTG CTT C L V L L L L W M L T T S H A M M H T L L	* GCA GCA AGA TTG TCT TTT TGT GAG AAC AAT GTG CTC ATC AAC TTC TTC TGT GAC CTA TTT A A R L S F C E N N V V L N F F C D L F	* GTT CTC CTA AAG CTG GCC TGC TCA GAC ACT TAT ATT AAT GAG TTG ATG ATA TTT ATC ATG V L L K L A C S D T Y I N E L M I F I M	* 47/99
370	380	390	400	410	420
* TAT CTG GCC ATO TGC TTC CCT CTG CAT TAC ACC AGC ATC ATG AGC CCC AAG CTC TGT ACT Y V A I C F P L H Y T S I M S P K L C T	* TGT CTA GTG CTG TTA TTG TGG ATG CTG ACG ACA TCC CAT GCC ATG ATG CAC ACA CTG CTT C L V L L L L W M L T T S H A M M H T L L	* GCA GCA AGA TTG TCT TTT TGT GAG AAC AAT GTG CTC ATC AAC TTC TTC TGT GAC CTA TTT A A R L S F C E N N V V L N F F C D L F	* GTT CTC CTA AAG CTG GCC TGC TCA GAC ACT TAT ATT AAT GAG TTG ATG ATA TTT ATC ATG V L L K L A C S D T Y I N E L M I F I M	* 47/99	* 47/99
430	440	450	460	470	480
* TAT CTG GCC ATO TGC TTC CCT CTG CAT TAC ACC AGC ATC ATG AGC CCC AAG CTC TGT ACT Y V A I C F P L H Y T S I M S P K L C T	* TGT CTA GTG CTG TTA TTG TGG ATG CTG ACG ACA TCC CAT GCC ATG ATG CAC ACA CTG CTT C L V L L L L W M L T T S H A M M H T L L	* GCA GCA AGA TTG TCT TTT TGT GAG AAC AAT GTG CTC ATC AAC TTC TTC TGT GAC CTA TTT A A R L S F C E N N V V L N F F C D L F	* GTT CTC CTA AAG CTG GCC TGC TCA GAC ACT TAT ATT AAT GAG TTG ATG ATA TTT ATC ATG V L L K L A C S D T Y I N E L M I F I M	* 47/99	* 47/99
490	500	510	520	530	540
* TAT CTG GCC ATO TGC TTC CCT CTG CAT TAC ACC AGC ATC ATG AGC CCC AAG CTC TGT ACT Y V A I C F P L H Y T S I M S P K L C T	* TGT CTA GTG CTG TTA TTG TGG ATG CTG ACG ACA TCC CAT GCC ATG ATG CAC ACA CTG CTT C L V L L L L W M L T T S H A M M H T L L	* GCA GCA AGA TTG TCT TTT TGT GAG AAC AAT GTG CTC ATC AAC TTC TTC TGT GAC CTA TTT A A R L S F C E N N V V L N F F C D L F	* GTT CTC CTA AAG CTG GCC TGC TCA GAC ACT TAT ATT AAT GAG TTG ATG ATA TTT ATC ATG V L L K L A C S D T Y I N E L M I F I M	* 47/99	* 47/99
550	560	570	580	590	600
* TAT CTG GCC ATO TGC TTC CCT CTG CAT TAC ACC AGC ATC ATG AGC CCC AAG CTC TGT ACT Y V A I C F P L H Y T S I M S P K L C T	* TGT CTA GTG CTG TTA TTG TGG ATG CTG ACG ACA TCC CAT GCC ATG ATG CAC ACA CTG CTT C L V L L L L W M L T T S H A M M H T L L	* GCA GCA AGA TTG TCT TTT TGT GAG AAC AAT GTG CTC ATC AAC TTC TTC TGT GAC CTA TTT A A R L S F C E N N V V L N F F C D L F	* GTT CTC CTA AAG CTG GCC TGC TCA GAC ACT TAT ATT AAT GAG TTG ATG ATA TTT ATC ATG V L L K L A C S D T Y I N E L M I F I M	* 47/99	* 47/99
610	620	630	640	650	660
* TAT CTG GCC ATO TGC TTC CCT CTG CAT TAC ACC AGC ATC ATG AGC CCC AAG CTC TGT ACT Y V A I C F P L H Y T S I M S P K L C T	* TGT CTA GTG CTG TTA TTG TGG ATG CTG ACG ACA TCC CAT GCC ATG ATG CAC ACA CTG CTT C L V L L L L W M L T T S H A M M H T L L	* GCA GCA AGA TTG TCT TTT TGT GAG AAC AAT GTG CTC ATC AAC TTC TTC TGT GAC CTA TTT A A R L S F C E N N V V L N F F C D L F	* GTT CTC CTA AAG CTG GCC TGC TCA GAC ACT TAT ATT AAT GAG TTG ATG ATA TTT ATC ATG V L L K L A C S D T Y I N E L M I F I M	* 47/99	* 47/99

Figure 14A Translated sequence of 17T.D1S

10	20	30	40	50	60
* ATG GAG CGA AGG AAC CAC AGT GGG ACA GTG AGT GAA TTT GTG TTG CTG GGT TTC CCA GCT	* M E R R N H S G R V S E F V L L G F P A	* 70	* 80	* 90	* 100
* CCT GCC CCA CTG CGA GTA CTA CTA TTT TTC CTT TCT CTT CTG G-C TAT GTG TTG GTG TTC	* P A P L R V L L F F L S L L X Y V L V L	* 110	* 120	* 130	* 140
* ACT GAA AAC ATG CTC ATC ATT ATA GCA ATT AGG AAC CAC CCA ACC CTC CAC AAA CGC ATG	* T E N M L I I I A I R N H P T L H K P M	* 150	* 160	* 170	* 180
* TAT TTT TTC TTG GCT AAT ATG TCA TTT CTG GAG ATT TCG TAT GTC ACT GTT ACG ATT CCT	* Y F L A N M S F L E I W Y V T V T I P	* 190	* 200	* 210	* 220
* AAG ATG CTC GCT GGC TTC ATT GGT TCC AAG GAG AAC CAT GGA CAG CTG ATC TCC TTT GAC	* K M L A G F I G S K E N H G Q L I S F E	* 230	* 240	* 250	* 260

Figure 14B

310	320	330	340	350	360
* GCA TGC ATG ACA CAA CTC TAC TTT TTC CTG GGC TTG GGT TGC ACA GAG TGT GTC GTT GTT A C M T Q L Y F F L G L G C T E C V L L					
370	380	390	400	410	420
* GCT GTG ATG GCC TAT GAC CGC TAT GTG GCT ATC TGT CAT CCA CTC CAC TAC CCC GTC ATT A V M A Y D R Y V A I C H P L H Y P V I					
430	440	450	460	470	480
* GTC AGT AGC CGG CTA TGT GTG CAG ATG GCA GCT GGA TCC TGG GCT GGA GGT TTT GGT ATC V S S R L C V Q M A A G S W A G G F G I					
490	500	510	520	530	540
* TCC ATG GTT AAA GTT TTG GTT ATT TCT CGC CTG TCT TAC TGT TGT GGC CCC AAC ACC ATC AAC S M V K V F L I S R L S Y C G P N T I N					
550	560	570	580	590	600
* CAC TTT TTC TGT GAT GTG TCT CCA TTG CTC AAC CTG TCA TGC ACT GAC ATG TCC ACA GCA H F F C D V S P L L N L S C T D M S T A					

Figure 14C

610	620	630	640	650	660
* GAG CTT ACA GAC TTT GTC CTG GGC ATT TTT ATT CTG CTG CGA CCG CTC TCT GTC ACT GGC	* E L T D F V L A I F I L L G P L S V T G	* 670	* 680	* 690	* 700
* GCA TCC TAC ATG GGC ATC ACA GGT GCT GTG ATG CGC ATC CCC TCA GCT GCT GGC CGC CAT	* A S Y M A I T G A V M R I P S A A G R H	* 730	* 740	* 750	* 760
* AAA GCC TTT TCA ACC TGT GCC TCC CAC CTC ACT GTT GTG ATC ATC TTC TAT GCA GCC ACT	* K A F S T C A S H L T V V I I F Y A A S	* 790	* 800	* 810	* 820
* ATT TTC ATC TAT GCC AGG CCT AAG GCA CTC TCA GCT TTT GAC ACC AAC AAG CTG GTC TCT	* I F I Y A R P K A L S A F D T N K L V S	* 850	* 860	* 870	* 880
* GTA CTC TAC GCT GTC ATT GTA CCG TTG TTC AAT CCC ATC ATC TAC TGC TTG CGC AAC CAA	* PRONUC/TRA OPTION				
V L Y A V I V P L F N P I I Y C L R N Q					

Figure 14D

	910		920		930		940		950		960
	*		*		*		*		*		*
CAT	GTC AAA ACA GCG CTA CCT CGC ACG CTG CAC CTG GCC CAG CAC GAG GAG GCC AAT ACC										
D	V K R A L R R T L H L A Q D Q E A N T										
	970		980								
	*		*								
AAC	AAA GGC AGC AAA ATT GGT TAG										
N	K G S K I G -										

Translation begun with base no. 119
 Translated to base no.1102
 Sequence printed from base no. 119 to base no.1102
 Sequence numbered beginning with base no. 119

Figure 15A Translated sequence of 18T.D1S

10	20	30	40	50	60
* ATG AAC AAC AAA ACT GTC ATC ACC CAT TTC CTC CTC CTG GGA TTG CCC ATC CCC CCA GAG M N N K T V I T H F L L L G L P I P P E	* 70	* 80	* 90	* 100	* 110
* CAC CAG GAA CTG TTC TTT GCC CTG TTC CTG ATC ATG TAC CTC ACC ACC TTT CTG GGA AAC H Q Q L F F A L F L I M Y L T T F L G N	* 130	* 140	* 150	* 160	* 170
* CTG CTA ATT GTT GTC CTT GTT CAA CTG GAC TCT CAT CTC CAC ACA CCC ATG TAC TTG TTT L L I V V L V Q L D S H L H T P M Y L F	* 190	* 200	* 210	* 220	* 230
* CTC AGC AAC TTG TCC TTC TCT GAT CTC TGC TTT TCG TCT GTT ACA ATG CTC AAA TTG CTC L S N L L S F S D L C F S S V T M L K L L	* 250	* 260	* 270	* 280	* 290
* CAA AAT ATA CAG AGC CAA GTA CCA TCT ATA TCC TAT GCA GGA TCC CTG ACA CAG ATA TTC Q N I Q S Q V P S I S Y A G C L T I Q I F	* 300				

AGA GTT ACC TGT ACC AAG AAA ATC TCT CTG CCA TGG TAG	910	920	930	9
R V T C S K K I S L P W -	*	*	*	

Translation begun with base no. 57

Translated to base no. 995

Sequence printed from base no. 57 to base no. 995

Sequence numbered beginning with base no. 57

Figure 16A

Translated sequence of 19T.D1S

10	20	30	40	50	60
ATG ACT AGA AGA AAC CAA ACT	TCT CAG TTC TTC CTT	CTG GGC CTG CCA TTC CCC			*
M T R R N Q T A I S Q F F L L G L P F P					
70	80	90	100	110	120
GCA GAG TAC CAA CAC CTG TTC TAT GCC CTG TTC CTG GGC ATG TAC CTC ACC ACT CTC CTC					*
P E Y Q H L F Y A L F L A M Y L T T L L					
130	140	150	160	170	180
GGG AAC CTC ATC ATC ATC ATT CTA CTG GAC TCC CAT CTC CAC ACA CCC ATG TAC					*
G N L I I I L I L L D S H L H T P M Y					
190	200	210	220	230	240
TTG TTT CTC AGC AAT TTA TCC TTT GCC GAC CTC TGT TTT TCC TCT GTC ACA ATG CCC AAG					*
L F L S N L S F A D L C F S S V T M P K					
250	260	270	280	290	300

850	860	870	880	890	900
* GTG ACA CCC ATG CTG AAC CCC TTC ATG TAC AGC CTA AGA AAC AGA GAC ATA AAA GAT GCA					*
V T P M L N P F I Y S L R N R D I K D A					
910	920	930	940		
* TTA GAA AAA ATA ATG TGC AAA AAG CAA ATT CCC TCC TTT CTA TGA					
L E K I M C K K Q I P S F L -					

Translation begun with base no. 200

Translated to base no. 1144

Sequence printed from base no. 200 to base no. 1144

Sequence numbered beginning with base no. 200

Figure 17A Translated sequence of 114T.DLS

10	20	30	40	50	60
* ATG ACT CGA AAT AAC CAA ACT TTG ATC TTG GAG TTC CTC CTC GGT CTG CCC ATC CCA	* M T G N N Q T L I L E F L L L G L P I P	* 70	* TCA GAG TAT CAT CTC CTG TTC TAT GCC CTG TTC CTC GCC ATG TAC CTC ACC ATC ATC CTG	* S E Y H L L F Y A L F L A M Y L T I I L	* 120
130	140	150	160	170	180
* CGA AAC CTG CTA ATC ATT GTC CTT GTT CGA CTG GAC TCT CAT CTC CAC ATG CCC ATG TAC	* G N L L I I V L V R L D S H L H M P M Y	* 190	* TTG TTT CTC AGC AAC TTG TCC TTC TCT GAC CTC TGC TTT TGC TCT GTC ACA ATG CCC AAA	* L F L S N L S F S D L C F S S V T M P K	* 240
250	260	270	280	290	300
* TTG CTT CAG AAC ATG CAG AGC CAA GTA CCA TCT ATA TCC TAT ACA GGC TGC CTG ACA CAG	* L L Q N M Q S Q Q V P S I S Y T G C L T Q	* 250	* 260	* 270	* 280

Figure 17B

310	320	330	340	350	360
* CTG TAC TTC TTT ATG GTT TTT GGA GAT ATG GAG AGC TTC CTT CTT CTG GTC ATG GCC TAT	* L Y F F M V F G D M E S F L L V V M A Y	* 330	* 340	* 350	* 360
370	380	390	400	410	420
* GAC CGC TAT CTC GCC ATT TGC TTT CCT TTG CGT TAC ACC ACC ATC ATG ACC ACC AAG TTC	* D R Y V A I C F P L R Y T T I M S T K F	* 390	* 400	* 410	* 420
430	440	450	460	470	480
* TGT GCT TCA CTA GTG CTA CTT CTC TGG ATG CTG ACG ATG ACC CAT GCC CTG CTG CAT ACC	* C A S L V L L L L W M L T M T H A L L H T	* 450	* 460	* 470	* 480
490	500	510	520	530	540
* CTA CTC ATT GCT AGA TTG TCT TTT TGT GAG AAG AAT GTG ATT CTT CAC TTT TTC TGT GAC	* L L I A R L S F C E K N V I L H F F C D	* 510	* 520	* 530	* 540
550	560	570	580	590	600
* ATT TCT GCT CTT CTG AAG TTG TCC TGC TCA GAC ATT TAT GTT AAT GAG CTC ATG ATA TAT	* I S A L L L K L S C S D I Y V N E L M I Y	* 570	* 580	* 590	* 600
610	620	630	640	650	660

*

[illegible]

Figure 17D

	910		920		930		9
	*		*		*		
CTA	ATA	ACA	GTT	ATC	TGC	ACT	AAG
L	I	R	V	I	C	T	K
							K
							I
							S
							L
							-
							TCT
							CTG
							TAA

Translation begun with base no. 64

Translated to base no.1002

Sequence printed from base no. 64 to base no.1002

Sequence numbered beginning with base no. 64

Figure 18B

310	320	330	340	350	360
* TTA TAC TTT TAC CTG TAT TTT GCA GAC CTT GAG AGC TTC CTG CTT GTG GCC ATG GCC TAT	* L Y F Y L Y F A D L E S F L L V A M A Y	* 330	* 340	* 350	* 360
370	380	390	400	410	420
* GAC CGC TAT GTG GCC ATC TGC TTC CCC CTT CAT TAC ATG AGC ATC ATG ACC CCC AAG CTC	* D R Y V A I C F P L H Y M S I M S P K L	* 390	* 400	* 410	* 420
430	440	450	460	470	480
* TGT GTG ACT CTG GTG CTG TCG TGG GTG CTG ACC ACC TTC CAT GCC ATG CTC CAC ACC	* C V S L V V L S W V L T T F H A M L H T	* 450	* 460	* 470	* 480
490	500	510	520	530	540
* CTG CTC ATG GCC AGA TTG TCA TTC TGT CGG GAC AAT ATG ATC CCC CAC TTT TTC TGT GAT	* L L M A R L S F C A D N M I P H F C D	* 510	* 520	* 530	* 540
550	560	570	580	590	600
* ATA TCT CCT TTA TTG AAA CTG TGC TGC TCT TGC ACG CAT GTT AAT GAG TTG GTG ATA TTT	* I S P L L K L S C S D T H V N E L V I F	* 570	* 580	* 590	* 600
610	620	630	640	650	660

Figure 18C

<p> * GTC ATG GCA GGG CTT GTT ATT GTC ATT CCA TTT GTG CTC ATC ATT GTA TCT TAT GCA CGA V M G G L V I V I P F V L I I V S Y A R </p>	<p> 670 * 680 * 690 * 700 * 710 * 720 </p>
<p> * GTT GTC GCC TCC ATT CTT AAA GTC CCT TCT GTG CGA GGC ATC CAC AAG ATC TTC TCC ACC V V A S I L K V P S V R G I H K I F S T </p>	<p> 730 * 740 * 750 * 760 * 770 * 780 </p>
<p> * TGC GGC TCC CAT CTG TCT GTG GTG TCA CTG TTC TAT GGG ACA ATC ATT GGT CTC TAC TTA C G S H L S V V S L F Y G T I I G L Y L </p>	<p> 790 * 800 * 810 * 820 * 830 * 840 </p>
<p> * TGT CCG TCA GCT AAT AAC TCT ACT GTG AAG GAG ACT GTC ATG GCC ATG ATG TAC ACA GTG PRONUC/TRA OPTION </p>	
<p> C P S A N N S T V K E T V M A M M Y T V </p>	
<p> * GTG ACC CCC ATG CTG AAC CCC TTC ATC TAC AGC CTG AGG AAC AGA GAC ATG AAA GAG GCA V T P M L N P F I Y S L R N R D M K E A </p>	<p> 850 * 860 * 870 * 880 * 890 * 900 </p>

Figure 18D

	910		920		930		940
	*		*		*		*
CTC	ATA	AGA	GTC	CTT	IGT	AAA	AAG
L	I	R	V	L	C	K	K
						I	T
						K	F
						I	C
						T	L
						TTC	TGT
						ACC	CTA
						ATT	TGA
							-

Translation begun with base no. 8

Translated to base no. 952

Sequence printed from base no. 8 to base no. 952

Sequence numbered beginning with base no. 8

Figure 19A

Translated Sequence of H5.D1S

10					20				
ATC	TGT	TTT	GTG	TCT	ACC	ACT	GTC	CCA	
I	C	F	V	S	T	T	V	P	
70					80				
*					*				
GTC	ATC	ACC	TAT	GCA	GAC	TGC	ATC	ACC	
V	I	T	Y	A	D	C	I	T	
190					200				
*					*				
GAC	AGC	TTA	CTC	CTG	ACT	GTG	ATG	GCC	
D	S	L	L	L	T	V	M	A	
250					260				
*					*				
GTG	AGC	ATC	CTA	TAT	TCT	CTG	TTA	CAA	
V	S	I	L	Y	S	L	L	Q	

Figure 19B

30			40			50		60		
*			*			*		*		
AAG	CAG	CTG	GTG	AAC	ATC	CAG	ACA	CAG	AGC	AGA
K	Q	L	V	N	I	Q	T	Q	S	R
90			100			110		120		
*										
CAG	ATG	TGC	TTT	TTT	ATA	CTC	TTT	GTA	GTG	TTG
Q	M	C	F	F	I	L	F	V	V	L
			160			170		180		
*			*			*		*		
TAT	GAC	CGG	TTT	GTG	GCC	ATC	TGT	CAC	CCC	CTG
Y	D	R	F	V	A	I	C	H	P	L
210			220			230		240		
*			*			*		*		
CTC	TGT	GGA	CTG	CTG	GTT	CTG	GTG	TCC	TTG	ATC
L	C	G	L	L	V	L	V	S	N	I
270			280			290		300		
*			*			*		*		
AGC	ATA	ATG	GCA	TTG	CAG	CTG	TCC	TTC	TGT	ACA
S	I	M	A	L	Q	L	S	F	C	T

Figure 19C

310				320				330			
*				*				*			
GAA	CTG	AAA	ATC	CCT	CAA	TTT	TTC	TGT	GAA		
E	L	K	I	P	Q	F	F	C	E		
370				380				390			
*				*				*			
GAC	ACT	TTT	ATT	AAT	GAC	ATG	ATG	ATG	AAT		
D	T	F	I	N	D	M	M	M	N		
430				440				450			
*				*				*			
CTC	GCT	GGA	ATA	TTT	TAC	T	TAC	TTT	AAG		
L	A	G	I	F	Y	X	Y	F	K		
490				500				510			
*				*				*			
GCT	CAG	GGG	ATG	AAT	AAA	GCA	CTT	TCC	ACC		
A	Q	G	M	N	K	A	L	S	T		
550				560				570			
*				*				*			
TTT	TAT	TGT	ACA	GGC	GTA	GGT	GTG	TAC	CTT		
F	Y	C	T	G	V	G	V	Y	L		
610				620				630			
*				*				*			
AAT	GCT	GCA	GCC	TCG	GTG	ATG	TAC	ACT	GTG		
N	A	A	A	S	V	M	Y	T	V		

00771200 01501

72/99
Figure 19D

340					350					360				
*					*					*				
CTT	AAT	CAG	GTC	ATC	CAC	CTT	GCC	TGT	TCC					
L	N	Q	V	I	H	L	A	C	S					
400					410					420				
*					*					*				
TTT	ACA	AGT	GTG	CTG	CTG	GGT	GGG	GGA	TGC					
F	T	S	V	L	L	G	G	G	C					
460					470					480				
*					*					*				
ATA	CTT	TGT	TGC	ATA	TGT	TGC	ATC	TCA	TCA					
I	L	C	C	I	C	S	I	S	S					
520					530					540				
*					*					*				
TGT	GCA	TCT	CAC	CTC	TCA	GTT	GTC	TCC	TTA					
C	A	S	H	L	S	V	V	S	L					
580					590					600				
*					*					*				
AGT	TCT	GCT	GCA	ACC	CAT	AAC	TCA	CTC	TCA					
S	S	A	A	T	H	N	S	L	S					
640														
*														
GTC	ACC	TCC	ATG	CTG										
V	T	S	M	L										

097712509 015601

Figure 20C

541 TTCTACACTTTTGGTGCTACTTACCTTAGTCTCTTCTTTTACCCAAACTCACACTCAACTGC
 S T L L G V Y L S S S F T Q N S H S T A -
 601 ACGGCCAICTGTTATGTACAGTGTGCTCACCCCCCATGTTG
 R A S V M Y S V V T P M L -
 +600
 +640

J2

Figure 21A

ACCTCCACCACTCCAAAGATGCTGGTAAATATACACCCAGACCAATACTATCACC
1 T S T T I P K M L V N I H T Q S N T I T - 60
TATGAAGACTGTATTTCCAGATGTTTGTACTCTTGGTTTTGGAGAACTGGACAACTTT
61 Y E D C I S Q M F V L L V F G E L D N F - 120
CTCCTGGCTGTGATGGCCTATGATCGATATGTGGCTATCTGTACCCTGTTATTACACA
121 L L A V M A Y D R Y V A I C H P L Y Y T - 180
GTCAATTGTGAACCAACCGACTCTGTATCCCTGCTTCGTCTGCTGGGTGTCAGCATTT
181 V I V N H R L C I L L L L L S W V V S I - 240
TTACATGCCCTTCTTACAGAGCTTAAATTGTACTACAGTTGACCTTCTGTGGAGATGTGAAA
241 L H A F L Q S L I V L Q L T F C G D V K - 300

Figure 21B

```

301  ATCCCTCACTTCTCTGAGCTCAATCAGCTGTCGCCAACTCACAATGTTTCAGACAACCTTT
    I P H F F C E L N Q L S Q L T C S D N F - +360
361  CCAAGTCACCTCACAAATGCATCTTGTACCTGTATATTTTCAGCTATTTCCCTCAGTGGT
    P S H L T M H L V P V I F A A I S L S G - +420
421  ATCCTTTACTCTTATTTCAAGATAGTGTCTTCACATACGTTCTCTATGTCCTCAGTTCAGGG
    I L Y S Y F K I V S S I R S M S S V Q G - +480
481  AAGTACAAGGCATTTTCTACATGTCGCTCTCAGCTTTCACATGTCCTCTTATTTTATAGT
    K Y K A P S T C A S H L S I V S L P Y S - +540
541  ACAGGCTCGGGTGACGTACGTCTGCTGTGATCGGAAGTCACACACTCTCTCCAAGT
    T G L G V Y V S S A V I R S S S H S S A S - +600
601  GCTTCGGTCATGTATACGTGTGTCACCCCCCATGTG
    A S V M Y T V V T P M L - 636

```

Figure 22A

1 CATAGCTATTGATCTTCTGTGCACACCCCAATATGCTTGTCAACTCTCTTATTAAGCAAAA
 I G Y S S S V T P N M L V N F L I K Q N - +60
 61 TACCATCTCATACCTTGGATGTTCTATACAGTTTGGCTCAGCTGCTTGTGTTTTCAGGTCT
 T I S Y L Q C S I Q P Q S A A L F G G L - +120
 121 TGAATGCTTCTTCTGTGCTGCCATGGCGTATGATCGTTTGTAGCAATCTGCACCCACT
 E C F L L A A M A Y D R F V A I C N P L - +180
 181 GCTTTATCAACGAAATGCCACACAGTCGTGTCACAGTTGCTTGGGATCTTATAT
 L Y S T K M S T Q V C V Q L V V G S Y I - +240
 241 AGGGGATTTCTTAATGCCCTGCTCTTTTACCTTTCTCTTTTTCCTTTTTCCTTGTCTCTGTGCG
 G G F L N A S S F T L S F F S L S F C G - +300

Figure 22B

```

301  ACCAATAGAAATCAATCACTTTTACTGTGATTTGCTCGTTAGTAGAACTTTCTTGCTC
      P N R I N H F Y C D P A P L V E L S C S - +360
361  TGATGTCACTGTTCTGTGATGCTTTACCTCATTTTCTGCTGCTCAGTTACTATGCTCAC
      D V S V P D A V T S F S A A S V T M L T - +420
421  AGTGTTTATCATAGCCATCTCCTATACCTATATCCTCATCACCATCCTGAAGATGCGTTC
      V F I I A I S Y T Y I L I T I L K M R S - +480
481  CACTGAGGTGAGAGAAAGCATCTCTACCTGCACTTCCACCTCACTGCACTGCACTCT
      T E G R Q K A P S T C T S H L T A V T L - +540
541  GTGCTATGGAACCATCACATTCATCTATGTGATGCCCCAAGTCCAGCTACTCCACAGACCA
      C Y G T I T F I Y V N P K S S Y S T D Q - +600
601  GAACAGGTGCTCTGCTTTTATATGCTGCTGATCCCGCATGTTG
      N K V V S V F Y M V V I P M L - 646

```

T05210.60212260

Figure 23A

5

[illegible]

Figure 23B

301 TTTAAGTTTCTTCTGCTCAACAAGAAAAAGGCTTTTCTACATGTTCTTCCACAT
 L K P P S A Q Q P K K A P S T C S S H M - +360
 361 GATTGCTTTCATCACTATGGAGCTGTAATTTTCATCTACATCAACCTTCAGCGAA
 I V V S I T Y G S C I P I Y I K P S A K - +420
 421 GGAAAGGTAGCCATCAATAAGGTGTGATCTGTGCTCACAAACATCAGTGGCCCTTTGCT
 E G V A I N K V V S V L T T S V A P L L - +480

C
481 - 481
G

Figure 24A

```

1  CATGCGCACCGCTCCACTACTCTCTTCTCATGAGTCTGACAACTGTGCTGCTCGGT
   I C H P L H Y S L L M S P D N C A A L V - 60
61  AACAGTCTCTCGGTGACACGGGTGGCGACGGGCTTCCTGCTTCCTGCTGATTTCTAA
   T V S W V T G V G T G F L P S L L I S K - 120
121 CTTGGACTTCTGTGGGCCAACCGCATCAACCATTTCTCTGTGAGCTGCCCTCCATTAA
   L D F C G P N R I N H F P C D L P P L I - 180
181 CCAGCTGTCTCTGCTCAGCGTCTTTGTGACAGAAATGGCCATCTTTGTCTCTGTCATGCG
   Q L S C S S V P V T E M A I F V L S I A - 240

```

Figure 24B

241 TGTGCTCTGCATCTCTTTCTCTCCTAACCCXXXXTCTCTACATTTTTCATATGTCCTCCAT
 V L C I C F L L T ? ? S Y I F I V S S I - +300
 301 TCTGAGATGCCCTTCCACTACCGGCAGGATGAAGACATTTTCTACATGTGGCTCCACCT
 L R I P S T T G R M K T F S T C G S H L - +360
 361 GCGCGTGTCCATCTCTACTATCGGACCATGATCTCCATGTATGTCCGCCCAATGCCCA
 A V V T I Y Y G T M I S M Y V G P N A H - +420
 421 TCTGTCCCGGAGCTCAACAGTCAATTTCTGTCTTCTACACTGTGATCACCCCACTACT
 L S P E L N K V I S V F Y T V I T P L L - +480

G

481 - 481

J11

Figure 25A

```

2  GTCTGCTTCTCTCCACCACCTGTCCCAAGGTACTGGCTAACCACTACTCAGTAGTCA 60
   V C F S S T T V P K V L A N H I L S S Q -
61 GGCAATTTCCTTCTCTGGCTGCTCTAACTCAGCTGTATTTCCTCTGCTGCTCTGTAATAT
   A I S F S G C L T Q L Y F L C V S V N M -
121 GGACAATTTCCTGCTGCTGATGGCTATGACAGATTGTGGCCATATGCCACCCCTTT
   D N F L L A V M A Y D R F V A I C H P L -
181 GTACTACACAAAGATGACCCACAGCTCTGCTGCTGCTGCTGCTGCTGCTGATCAXXXXX
   Y Y T T K M T H Q L C V L L V S G S ? ? -
241 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
   ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? -
300

```

Figure 25B

```

301  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX-----+360
      ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?
361  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX-----+420
      ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?
      ATTTGCTGCA TCCTCATCTCTTACATCTACATCACCAGTCAGTCTCAGATCTCATC-----+480
      P V C I L I S Y I Y I T N A V L R V S S -
481  CTTTAGGGAGCATGGAAAGCCTTCTCCACCTGTGGCTCACACCTGGCTGTGGTCTGCCT-----+540
      F R G G W K A F S T C G S H L A V V C L

```

Figure 25C

541 CTCTATGCGACCATTCATTGCTGTGATTTCATCTGTATCTTCCATTTCATCTGAGAA +600
 F Y G T I I A V Y F N P V S S H S S E K -
 601 GGACATGCGAGCACTGTGCTATACACAGTGGTACTCCCATGTTG
 D T A A T V L Y T V V T P M L - 646

Figure 26B

```

301  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
    ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?
    -----+-----+-----+-----+-----+-----+-----+-----+
    XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
361  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
    ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?
    -----+-----+-----+-----+-----+-----+-----+-----+
    ATTGTCGCATCCTCTTACATCTTACATCACCACCAATGCAGTCCACAGAGTCTCATC
421  P V C I L I S Y I Y I T N A V L R V S S
    -----+-----+-----+-----+-----+-----+-----+-----+
    CTTTAGGGAGGATGGAAAGCCTTCTCCACCTGTGGGTACACCTGCCTGCTGCTTCCT
481  F R G O W K A F S T C G S H L A V V C L
    -----+-----+-----+-----+-----+-----+-----+-----+
    CTTCTATGGCACCATCATTCGTGTATTTCAAATCCGTATCTTCCCATTCATCTGAGAA
541  F Y G T I I A V Y Y P N P V S S H S S E K
    -----+-----+-----+-----+-----+-----+-----+-----+
    GGACACTGCAGCAACTGTGTCTATACACAGTGGTCACTCCCATGCTG
601  D T A A T V L Y T V V T P M L
    -----+-----+-----+-----+-----+-----+-----+-----+
    646
  
```


J15

Figure 27A

```

1  TATCTGCACCCCTCTGCGCTACCCAGCTGCTCATGAGCGGCGGCTGTCCTGCTCATGCT
   I C M P L R Y P V L M S Q R V C L L M V
60

61 CGTGGCCTCTGCTTGGAGGATCCCTCAAGCGCTCCATTTCAGACTTCTCTGACCCCTTCA
   V A S W L G G S L N A S I Q T S L T L Q
120

121 GTTCCCTTACTGTGGATCAGGAAGATCTCCCACTTCTTCTGAGGTGCGCCTCGCTGCT
   F P Y C G S R K I S H F P C E V P S L L
180

181 GAXXXTGGCCTGTGCAGACACTGAAGCCTATGACAGGTACTATTGTGACAGGCGTGGT
   ? ? A C A D T E A Y E Q V L F V T G V V
240

```

Figure 27B

241 - - - - -
 GGTCTCTCTGGTGGCCATTACATTCTATTGCTCTTATGCCCTCATCTGGCTGCTGT
 V L L V P I T P I T A S Y A L I L A A V
 301 - - - - -
 GCTCCGAATGCCACTCTCGGAGGGAGTCAGAGGCCCTAGCCACATGCTCTCTCACCT
 L R M H S A E G S Q K A L A T C S S H L -
 360 - - - - -
 GACAGTCGTCAATCTCTTATGGGCCCCCTGTCTACACCTACATGTTACCTGCTTCCTA
 T V V N L F Y G P L V Y T Y M L P A S Y -
 420 - - - - -
 TCACTCACCCAGGCCAAGACGACATAGTATCGTCTTTTACACCGTCTCACACCCATGCT
 480 - - - - -
 H S P G Q D D I V S V F Y T V L T P M L -

T
 481 - 481
 A

J16

Figure 28A

1 CATCTGTAGGCTCTTCACTATCTCTACCTCATGACCCAGACACTGTGTGCCAAGATTGC
 I C R P L H Y P T L M T Q T L C A K I A - +60
 61 CACTGGTTCCTGGTGGAGGCTTCGCTGGCCAGTGGTAGAATTCCTTGGTGTCTCG
 T G C W L G G L A G P V V E I S L V S R - +120
 121 TCTCTTTTGTGGCCCCATCACATTCACACATCTTTTGTGATTTCCACCTGTGCT
 L L F C G P N H I Q H I F C D F P P V L - +180
 181 GAGCTTGCTTGTACTGATACATCAGTGAATGCTCTGGTAGATTTTATATAACCTCTC
 S L A C T D T S V N V L V D P I I N L C - +240
 241 CAAGATCTGGCCACCTTCTGCTGATCCTGAGCTCTCTACTGTCAGATATCCGCACGT
 K I L A T F L L I L S S Y L Q I I R T V - +300

Figure 28B

181 GAGCTTGGCTTGACTGATACATCAGTGAATGCTCCTGGTAGATTTTATTATAAACCTCTG
 S L A C T D T S V N V L V D P I I N L C - +240
 241 CAAGATCTGGCCACCTTCCTGCTGATCCTGAGCTCCTACTTGCAGATAATCCGCACGT
 K I L A T F L L I L S S Y L Q I I R T V - +300
 301 GCTCAGATTCTTCAGCTGCGAGGCAGAGAAAGCAITTCGACTTGTGCTCCCATCT
 L K I P S A A G K K K A P S T C A S H L - +360
 361 CACTGTGGTTCTCATCTTCTATGGGAGCATCCTTTTCATGATGTGCGGCTGAAGAAGAC
 T V V L I F Y G S I L F M Y V R L K K S - +420
 421 TTACTCCCTTGACTAGACAGAGCCTTGGCAGTAGTCTACTCCGTGGTACCCCTTTCTCT
 Y S L D Y D R A L A V V Y S V V T P F L - +480

G

481 - 481

Figure 29A

```

1  AATCTCAACCCACTGCTTTATTATCCACCAAAATGTCACACAACTCTGTATCCAGTTGTT
   I C N P L L Y S T K M S T Q V C I Q L V - +60
61  TGCAGGATCTTATATAGGGGTTTTCTTTAATACTTCCCTCATCATGTTTACTTTTCTC
   A G S Y I G C P L N T C L I M F Y F F S - +120
121 TTTTCTCTTCGTGGGCCAAATATAGTTGATCAATTTTTCGTGATTTTGCCTCTTXXXT
   F L P C G P N I V D H F F C D F A P 7 ? - +180
181 GGAACTTCCGTGCTCTGATGTGAGTCCTCTGTAGTTGTTATGTCATTTTCTCTCTGGCTC
   E L S C S D V S V S V V V M S F S A G S - +240
241 AGTTACTATGATCACAGTGTTTATCATAGCCATCTCTATTCTTACATCCATCACCAT
   V T M I T V F I I A I S Y S Y I L I T I - +300

```

Figure 29B

```

301 CCTGAAGATGTCCTCAACTGAGGCGCGTCACAAGGCTTTCTCCACATGTACCTCCGACCT+360
    L K M S S T E G R H X A F S T C T S H L -
361 CACTGCAGTCACCTCTTACTATGGCACCATTACCTTCATTTATGTATGCGCCCAAGTCCAC+420
    T A V T L Y Y C T I T F I Y V M P K S T -
421 ATACTCTACAGACCAGAACAAGGTGGTGTCTGTGTTTACATGGTGGTGATCCCCAATGTT+480
    Y S T D Q N K V V S V F Y M V V I P M L -

```

G

481 - 481

J19

Figure 30A

```

1  TATGCCACCCTCTGAGTACACAGTTATCATGAATCACTATTTTGTGTGATGCTGCT
   I C H P L K Y T V I M N H Y P C V M L L - +60
61 GCTCTTCTCTGTCTGCTTAGCA*TCACATGCTGCTTCCACATTTTAAATGGTGTGAT
   L P S V F V S I A H A L F H I L M V L I - +120
121 ACTGACTTTCAGCACAAAACAGTGAATCCCTCACTTTTCTGTGAGCTGCTCATATCAT
   L T F S T K T E I P H F F C E L A H I I - +180
181 CAAACTTACCIGTTCGATATTTTATCAACTATCTCGATATACACAGAGTCTGTCTT
   K L T C S D N F I N Y L L I Y T E S V L - +240
241 ATTTTTCGTGTCATATTGTAGGAGTCAATTTGCTTATATTTACACTGTATCCTCAGT
   F F G V H I V G I I L S Y I Y T V S S V - +300

```

Figure 30B

```

301  TTTAAGAAATGTCATTATTGGGAGGAATGTATAAAGCCTTTTCAACATGTGGATCTCATTT
    -----+-----+-----+-----+-----+-----+-----+
      L  R  M  S  L  L  G  G  M  Y  K  A  F  S  T  C  G  S  H  L  -
361  GTCGGTTGCTCTCTGTTTATGGCACAGGTTTGGGGGTACACATAAAGCTCTCCACTTACTG
    -----+-----+-----+-----+-----+-----+-----+
      S  V  V  S  V  L  W  H  R  F  W  G  T  H  K  L  S  T  Y  *  -
421  ACTCTCCAAGGAAGACTGTAGTGGCTTTCAGTGAATGTACACTGTGGTTACTCAGATGCTG
    -----+-----+-----+-----+-----+-----+-----+
      L  S  K  E  D  C  S  G  F  S  D  V  H  C  G  Y  S  D  A  -
479

```


Figure 31A

J20

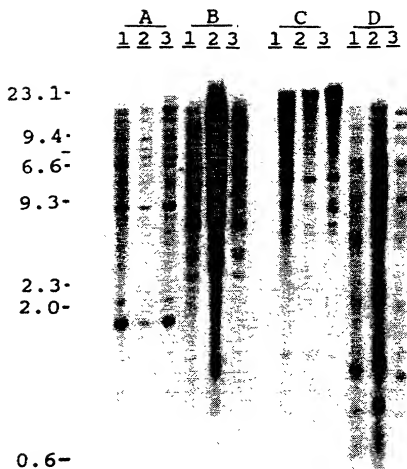
AATCTGCTACCCACCTAGGTACCTTCTCATCATGAGCTGGTGGTGTGCACAGCACTGTC
 1 - - - - - + - - - - - + - - - - - + - - - - - + - - - - - + - - - - - + 60
 I C Y P L R Y L L I M S W V V C T A L S -
 CGTGGCAATCTGGGTCAATAGGCTTTTGTGCCTCCGTTATACCTCTCTGCTTTCACGATCCT
 61 - - - - - + - - - - - + - - - - - + - - - - - + - - - - - + - - - - - + 120
 V A I W V I G F C A S V I P L C F T I L -
 CCCACTCTGTGGTCTTACGTCTGTTGATTATCTTTTCTGGAGCTGCCCATCTTCTGCA
 121 - - - - - + - - - - - + - - - - - + - - - - - + - - - - - + - - - - - + 180
 P L C G P Y V V D Y L F C E L P I L L H -
 CCTGTTCTGCACAGATACATCTCTGCTGGAGAXXXXXXXXXXXXXXXXXXXXXXXXXXX
 181 - - - - - + - - - - - + - - - - - + - - - - - + - - - - - + - - - - - + 240
 L F C T D T S L L E ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?
 XXXXXXXXXXXXCCCTTCTCTGATGTCTCTCTACCTTGGCATCTCTGGTGGCTGTG
 241 - - - - - + - - - - - + - - - - - + - - - - - + - - - - - + - - - - - + 300
 ? ? ? ? P F L L I V L S Y L R I L V A V

Figure 31B

301 ATAGATAGACTCAGCTAGGCGAGAAAAGGCCCTTTTCAACTTGTGCTTCACACTTG
 I R I D S A E O R K K A F S T C A S H L
 361 GCTGTGTCACCATCTACTATCGAACAGCGCTGATCAGGTACTTACGCCCAAGTCCCTT
 A V V T I Y Y G T G L I R Y L R P K S L
 421 TATTCGCTAGGGAGACAGACTGATCTCTGTGTTCTATCCAGTCAATTGGCCCTGCACTG
 Y S A E G D R L I S V F Y A V I G P A L
 480

99/99

Figure 32



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